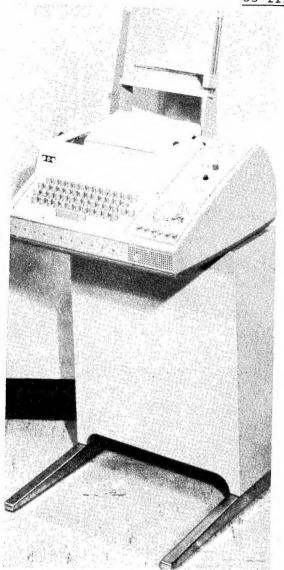
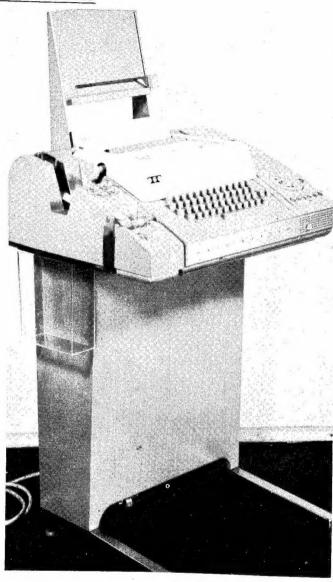
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33 TYPE TELETYPEWRITER SETS





33KSR

33ASR

GENERAL DESCRIPTION: The model 33 teletypewriter set receives and transmits 8 level, 11 unit code in a sequential start - stop arrangement. Operation is at a speed of 100 words per minute (110 Bauds).

The 33 type equipment has been coded as complete sets with a dash suffix after the code which specifies the dial equipment as follows:

- -1 = Rotary Dial
- 2 = Touch tone dial
- 3 = Touch tone card dialer
- . 4 = D.C. card dialer
- 5 = Set is supplied without dial and bezel

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The following pages contain descriptions of the major components of which a 33 type set is composed.

KEYBOARD (33KSR & 33ASR)

The Model 33 keyboard is similar in appearance to a four row typewriter keyboard. Letters and numerals are on separate keys and there are no fractions on the keyboard. It is equipped with a contact mechanism at the extreme right which sets up the code combinations for conversion to start - stop signals by the distributor. A "Shift" key is provided to transmit the printing characters in upper case and a "Control" key is provided to transmit the control functions. The associated Shift or Control key must be held down while the key is depressed.

The parity keyboard is the same as the standard eight level data interchange code keyboard except the "ALT MODE" key has been changed to "ESC". A contact mechanism has been mounted on the left hand side of the keyboard for even parity generation. This mechanism adds a pulse whenever the number of marking pulses in a code combination is odd, therefore, it can be used as an error detection feature.

PRINTER ASSEMBLY (33RO, 33KSR & 33 ASR)

The Model 33 printer utilizes a typewheel to provide up to one original and one carbon copy on friction and sprocket feed paper. Paper 8 1/2 inches wide and up to 5 inches in diameter (roll) can be accepted. Vertical positioning of 6 lines per inch, single or double line feed, and horizontal positioning for 72 character lines are provided.

The printer is provided with a function box with 15 slots, which have been assigned as follows: Position 1 Line Feed, Position 2 Carriage Return, Position 3 Space, Position 5 Print Suppression, Position 6 Print Suppression for Control, Position 7 Bell, Position 12 E.O.T., Position 13 Line Feed, Position 14 Form Out, Position 15 Ans-Back Function (WRU). In addition to the functions provided by the function box and shown on the keytop arrangement, the printer is provided with a margin bell which operates on the fourth character from end of line, print suppression on space, space suppression after the 72nd character so that the 73rd character partially or wholly overprints the 72nd, RU actuation on Control"F", WRU actuation on Control"E" and form on Control"E".

Print and space suppression on line feed, carriage return, shift, control, bell and break are provided.

An answer-back mechanism which operates in conjunction with the distributor is activated by operation of "here-is" key or receipt of control "WRU". The drum of the mechanism may be coded to provide a 20 character sequence, 9 & 10 character sequences, or three 6 character sequences.

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MOTOR (33RO, 33KSR & 33ASR)

This is a synchronous, capacitor start, motor designed for operation at 3600 rpm. It operates on $115 \text{ VAC} \pm 10\%$, 60 cps, single phase and 2 amperes. The motor provides an output of $0.\overline{0}33$ horsepower.

CALL CONTROL UNIT (33RO, 33KSR & 33ASR)

This unit provides facilities for initiating, accepting, controlling and completing calls. It is mounted under a bezel at the right side of the cover.

Mounted at the front of the unit is a speaker and volume control for monitoring the progress of calls. Immediately above and behind the speaker is a row of six illuminating push buttons designated Originate, Clear, Answer, Test, Local, and Buzzer Release. The first three are the momentary type while the last three are locking type.

A dial is mounted on the call control unit for a 33KSR or a 33ASR behind the row of push buttons. Above the dial is furnished an Out of Service key and an Out of Service Switch for 33RO, 33KSR & 33ASR while a Break Release lamp & Push button and a Reset lamp are provided for the 33KSR & 33ASR only.

In addition, the Call Control Unit contains a Motor Control Relay, a 500 milliampere selector magnet driver, a 48 volt rectifier, power line fuses, a ringer mechanism to signal an incoming call and a transistorized speaker - amplifier to drive the speaker. At the rear of the unit are six female receptacles for interconnection of units and a nine point terminal board. Provided with the set is a three prong AC power cord.

TAPE PUNCH (33ASR)

The punch, located on the left side of the machine, is controlled by "on" and "off" pushbuttons which provide mechanical linkage between it and the typing unit. A "REL" pushbutton releases the feed guide mechanism so that tape can be easily removed. A "BSP" pushbutton backspaces the tape one combination of code holes. The punch may not be used for preparing tape blind because of the mechanical linkage and the use of the common distributor by both the tape reader and the typing unit. Prepared tape is fully perforated and a detachable chad bin is provided. The bin is suspended from the stand on the left side. A separate cover is provided which is also used as a tape holder.

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TAPE READER (33ASR)

This reader is magnet driven and pulsed under control of the common distributor. The output is in parallel and is sent to the common distributor. A three position "off-on-freewheel" switch is provided for control of the reader. A separate cover is provided.

COVER (33RO, 33KSR & 33ASR)

A plastic cover, which encloses all of the previously mentioned material, contains a lid for easy replenishing of paper and ribbon and a window through which copy may be viewed. The window contains a cutting edge for tearing the paper. A paper roll is held on a spindle which sets in depressions at the rear of the cover. Dimensions of the cover are 18 1/2" deep, 3 3/8" high, and 18 5/8" wide for 33RO & 33KSR. The 33ASR is 23" wide due to the punch and reader assemblies.

STAND (33RO, 33KSR & 33ASR)

The sheet metal stand supports the Printer at the correct operating level and also acts as the housing for the Data Set. A removable rear panel provides access to the enclosure and to the power pack for the tape reader. The chrome feet of the stand are equipped with leveling screws. Dimensions of the stand are 8'' x 18'' at the top, $6\ 1/2''$ x 18'' at the bottom, and $24\ 5/8''$ high.

COPY HOLDER (33KSR & 33ASR)

The copyholder is mounted on the rear of the cover.

The Cover, Stand and Copyholder are provided in Light Olive Gray Alkyd Enamel Color (Finish 702) as standard. Any other finish required must be specified by description.

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33 KEYBOARD SENDING & RECEIVING TELETYPEWRITER SETS

			STANDARD KEYBOARD	PARITY KEYBOARD	MOTOR	CALL CONTROL UNIT	COVER & STAND		DIAL				
33 TTY SET	FRICTION FEED							COPYHOLDER	ROTARY	TOUCH-TONE MANUAL	TOUCH-TONE CARD	D.C. CARD	NOTES
A-X3=5	X			X				1	-				
D-X3-5		X		X	Х	X	Х	X					1,2
A-1	X		X										-,-
D-1		X	X		Х	Х	X	X	X				1
A-2	X		X										
D-2		X	X		X	Х	X	Х		Х			1
A-3	X		X					\vdash					
D-3		X	Х		X	Х	X	Х			х		1
A-4	X		X						\dashv				7
D-4		Х	Х		X	X	X	Х				Х	1
A-5	X	1	Х	7					-				
D-5		Х	X	7	X	Х	X	X					1,2

NOTE 1: See General Section for description of each component.

NOTE 2: Set is supplied without Dial and bezel.

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33 RECEIVING ONLY TELETYPEWRITER SET

33B TELETYPEWRITER SET

This set contains a friction feed printer, motor, call control unit, cover, and stand as described under General Description. The set is not equipped with a dial or keyboard.

33E TELETYPEWRITER SET

This is the same as the 33B Teletypewriter Set except is is arranged for sprocket feed and form out.

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33 AUTOMATIC SENDING & RECEIVING TELETYPEWRITER SET

			KEYBOARD	RD								DIAL			
33 TTY SET	FRICTION FEED	SPROCKET FEED	STANDARD KEYB	PARITY KEYBOARD	MOTOR	CALL CONTROL UNIT	TAPE PUNCH	TAPE READER	COVER & STAND	COPYHOLDER	ROTARY	TOUCH-TONE MANUAL	TOUCH-TONE CARD	D. C. CARD	NOTES
C-X3-5	X			X	Х	х	х	Х	Х	v					
F-X3-5		X		X	Λ	Λ.	Λ	Λ	Λ	X					1,2
C-1	X		X		Х	Х	Х	х	v		7.7				
F-1		X	X		Λ	Λ	Λ	Λ	Х	X	Х				1
<u>C-2</u>	Х		X		x	х	Х	Х	Х	Х		Х			3
F-2		X	X					1	Λ.	^		Λ			1
C-3	X		Х		v T										
F-3		Х	X		Х	Х	Х	Х	X	Х			Х		1
C-4	X		X		v	.,									
F-4		х	Х		Х	Х	X	X	X	Х				Х	1
C-5	X		X		v	v	.,	.,							
F-5		X	X		X	X	X	X	Х	X		ł			1,2

NOTE 1: See General Section for description of each component.

NOTE 2: Set is supplied without dial and bezel.

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MODIFICATION KITS 33 TYPE SETS

TP182044 TP182269 TP182487 TP182488 TP182490 TP182496 TP182497 TP182498 TP182499 TP182128 TP183138 TP194914	Elapsed Time Indicator Prevents Double Tripping of Keyboard, Reader & Ans-back Installing DC Card Dial - Less Dial Installing Touch-Tone Card Dial - Less Dial Installing Touch-Tone Dial - Less Dial Installing DC Rotary Dial - Less Dial Installing DC Rotary Dial - With Dial Installing Touch-Tone Dial - With Dial Installing Touch-Tone Card Dial - With Dial Installing Touch-Tone Card Dial - With Dial Installing DC Card Dial - With Dial Convert 8 Level Printer For Automatic Reader Control Provide Improved Reader Mounting Parts
TP194914 TP195259EW	Provide a Directory Holder Provide Mounting Facilities for a Paper Winder
	•

END OF SECTION